

(19)



JAPANESE PATENT OFFICE

JPA 11-275321

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 11275321 A

(43) Date of publication of application: 08.10.99

(51) Int. Cl.

H04N 1/19
G06T 1/00

(21) Application number: 10070725

(71) Applicant: PFU LTD

(22) Date of filing: 19.03.98

(72) Inventor: KAJI YUKIO

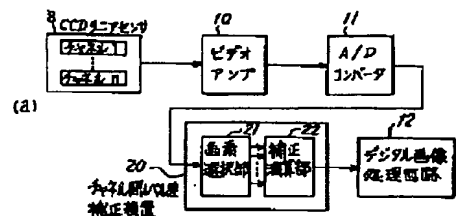
(54) PICTURE READER

(57) Abstract:

PROBLEM TO BE SOLVED: To reduce a level difference occurred between picture elements different in channels in a picture reader where the driving-type CCD linear sensor of a plurality of channels is used and to improve the picture quality.

SOLUTION: In a picture reader using the driving-type CCD 8 of a plurality of channels, an inter-channel level difference correction means 20 correcting a level difference existing between the channels of CCD 8 with picture data of a picture read result by CCD 8 as, an object is installed. For correcting the level difference, the picture elements of a plurality of continuous channels are averaged and smoothed or the level difference between the channels is detected in the reading of a white reference sheet and the offset of the picture elements of the respective channels are corrected by using the detected level difference.

COPYRIGHT: (C)1999,JPO



(b)

$$\begin{aligned} \text{補正部} & \left[S(i-3) \ S(i-2) \ S(i-1) \ S(i) \ S(i+1) \ S(i+2) \ S(i+3) \ S(i+4) \ S(i+5) \right] \\ & \downarrow \\ & S(i) = [S(i-1) + S(i) + S(i+1) + S(i+2)] / 4 \\ \text{補正部} & \left[S(i-3) \ S(i-2) \ S(i-1) \ S(i) \ S(i+1) \ S(i+2) \ S(i+3) \ S(i+4) \ S(i+5) \right] \end{aligned}$$

(c)

$$\begin{aligned} \text{補正部} & \left[S(i-3) \ S(i-2) \ S(i-1) \ S(i) \ S(i+1) \ S(i+2) \ S(i+3) \ S(i+4) \ S(i+5) \right] \\ & \downarrow \\ & S(i) = S(i) - K \{ S(i) - [S(i-1) + S(i) + S(i+1) + S(i+2)] / 4 \} \\ \text{補正部} & \left[S(i-3) \ S(i-2) \ S(i-1) \ S(i) \ S(i+1) \ S(i+2) \ S(i+3) \ S(i+4) \ S(i+5) \right] \end{aligned}$$